

Prof. SEVDA ZUHAL AKYÜREK

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: Q-4297-2016

ScopusID: 12142232800

Yoksis Researcher ID: 11350

Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1992 - 1998

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1989 - 1991

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1985 - 1989

Dissertations

Doctorate, Some Applications of Satellite Remote Sensing to Enviromental Monitoring in turkey, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1998

Postgraduate, SCS Model in Guvenc Basin, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1991

Research Areas

Surface Water Engineering, Hydrology, Water Resources Planning and Management, Hydraulic Structures

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2013 - Continues

Academic and Administrative Experience

Assistant Manager of Research and Application Center, Middle East Technical University, Presidency Office, EKOSAM, 2018 - Continues

Anabilim Dalı Akademik Kurul Üyesi, Middle East Technical University, Graduate School of Natural and Applied Sciences, Earth System Science, 2018 - Continues

Courses

Water Resources Eng., Undergraduate, 2020 - 2021

Advising Theses

- AKYÜREK S. Z., Assessment of random forest method in pixel-based snow cover classification in Alpine region, Tatra mountains and Kaçkar mountains, Postgraduate, C.AKSU(Student), 2022
- AKYÜREK S. Z., Evaluating the use of satellite optical data for mapping and monitoring lakes and their salinity in Konya and Burdur closed basins subjected to increasing water abstraction and climate change, Postgraduate, M.ARDA(Student), 2022
- AKYÜREK S. Z., daha sonra doldurulacaktır, Doctorate, R.ULUĞ(Student), 2021
- AKYÜREK S. Z., A topological system for codification of river basins in Turkey, Postgraduate, İ.ULUCAN(Student), 2021
- AKYÜREK S. Z., Opportunities and challenges in using soil moisture from cosmic ray neutron sensing for rainfall-runoff modelling, Doctorate, M.BERK(Student), 2021
- MERZİ N., AKYÜREK S. Z., Utilization of numerical weather prediction models for flood planning and operational studies in datascarc basins, Doctorate, O.Çağrı(Student), 2020
- AKYÜREK S. Z., Soil water content estimation from point scale to plot scale, Postgraduate, G.DEMİR(Student), 2018
- AKYÜREK S. Z., Estimating net primary productivity of forest ecosystems over Turkey using remote sensing approach, Doctorate, Ö.GÜLBAYAZ(Student), 2018
- AKYÜREK S. Z., Effects of sediment transport on 1-d and 2-d hydrodynamic modeling and flood inundation, Postgraduate, G.ÖNDER(Student), 2018
- AKYÜREK S. Z., Assessment of different rainfall products in flood simulations, Doctorate, A.ÖZKAYA(Student), 2017
- AKYÜREK S. Z., Hierarchical land use and land cover classification of Sentinel2-A images and its use for corine system, Postgraduate, D.ÇAĞDAŞ(Student), 2017
- AKYÜREK S. Z., 1-D and 2-D flood modeling studies and upstream structural measures for Samsun city Terme district, Postgraduate, B.BOZOĞLU(Student), 2015
- AKYÜREK S. Z., The use of simple inertial formulation of the shallow water equations in 2-D flood inundation modeling, Postgraduate, A.NİMAEV(Student), 2015
- AKYÜREK S. Z., The use of multimetric framework in calibrating the HBV model, Doctorate, S.SÜRER(Student), 2015
- AKYÜREK S. Z., Evaluating geoportals, Postgraduate, E.CON(Student), 2014
- Akyürek S. Z., Yücel İ., Effects of climate change on water resources in Omerli basin, Doctorate, F.KARA(Student), 2014
- AKYÜREK S. Z., Atmospheric correction and image classification on MODIS images by nonparametric regression splines, Doctorate, S.KUTER(Student), 2014
- AKYÜREK S. Z., Regional flood frequency analysis for Ceyhan Basin, Postgraduate, M.Altuğ(Student), 2013
- AKYÜREK S. Z., Multi resolution spatial database for mobile applications, Postgraduate, K.İNAL(Student), 2013
- AKYÜREK S. Z., Operation of cascade dams considering various scenarios and financial analysis of scenarios, Postgraduate, B.Yalın(Student), 2013
- AKYÜREK S. Z., Analysis and modeling of spatially and temporally varying meteorological parameter: Precipitation over Turkey, Doctorate, P.ASLANTAŞ(Student), 2013
- AKYÜREK S. Z., Regional flood frequency analysis for Ceyhan, Postgraduate, M.ALTUĞ(Student), 2013
- AKYÜREK S. Z., MERZİ N., Operation of the water control structures, Postgraduate, O.ÇAĞRI(Student), 2013
- AKYÜREK S. Z., OPERATION OF CASCADE DAMS CONSIDERING VARIOUS SCENARIOS AND FINANCIAL ANALYSIS OF SCENARIOS, Postgraduate, B.YALIN(Student), 2013
- AKYÜREK S. Z., A segment-based approach to classify agricultural lands using multi-temporal kompsat-2 and envisat asar data, Doctorate, A.Özdarıcı(Student), 2012
- AKYÜREK S. Z., A segment-based approach to classify agricultural lands using multi-temporal Kompsat-2 and Envisat ASAT data, Doctorate, A.ÖZDARICI(Student), 2012
- AKYÜREK S. Z., Developing regional flow duration curves and evaluating the performances in the ungauged basins, Postgraduate, Y.KOCATEPE(Student), 2011

MERZİ N., AKYÜREK S. Z., Developing a methodology for finding network water losses using information technologies, Postgraduate, H.Onur(Student), 2010

TUNCEL S. G., AKYÜREK S. Z., Development of GIS based trajectory statistical analysis method to identify potential sources of regional air pollution, Postgraduate, R.FİKRET(Student), 2010

COŞAR A., AKYÜREK S. Z., Real-time 2D/3D display of DTED maps and evaluation of interpolation algorithms, Postgraduate, A.DEMİR(Student), 2010

AKYÜREK S. Z., Developing a spatial decision support system for telecom wireline infrastructure of Ankara city, Postgraduate, A.Dabanlı(Student), 2010

AKYÜREK S. Z., MERZİ N., Developing a methodology for finding network water losses using information technologies: A case study, Postgraduate, H.ONUR(Student), 2010

AKYÜREK S. Z., Evaluating the use of satellite-based precipitation estimates for discharge estimation in ungauged basins, Postgraduate, A.SOYTEKİN(Student), 2010

AKYÜREK S. Z., A fuzzy software prototype for spatial phenomena: Case study precipitation distribution, Doctorate, T.ALPA(Student), 2010

AKYÜREK S. Z., Context based interoperability to support infrastructure management in municipalities, Doctorate, E.TUFAN(Student), 2010

AKYÜREK S. Z., Positional uncertainty analysis using data uncertainty engine-A case study on agricultural land parcels, Postgraduate, İ.URGANCI(Student), 2009

AKYÜREK S. Z., Real-time snow cover mapping over mountainous areas of Europe using MSG-SEVIRI imagery, Postgraduate, S.SÜRER(Student), 2008

AKYÜREK S. Z., Classification of forest areas by K Nearest Neighbor Method: Case study, Antalya, Postgraduate, F.ÖZSAKABAŞI(Student), 2008

AKYÜREK S. Z., A case study in weather pattern searching using a spatial data warehouse model, Postgraduate, Ç.KÖYLÜ(Student), 2008

AKYÜREK S. Z., Hydrological model study in Yuvacık dam basin by using GIS analysis, Postgraduate, F.KESKİN(Student), 2007

AKYÜREK S. Z., Finding the optimum route for transmission lines within GIS, Postgraduate, T.ÖZTÜRK(Student), 2007

BEKLİOĞLU M., AKYÜREK S. Z., Monitoring of water clarity, and submerged and emergent plant coverages in shallow lake wetlands using remote sensing techniques, Postgraduate, Ö.KARABULUT(Student), 2007

AKYÜREK S. Z., A fuzzy based decision support system for locational suitability of settlements; Odunpazarı, Eskişehir case study, Postgraduate, İ.ERCAN(Student), 2006

AKYÜREK S. Z., Investigation over a national meteorological fire danger approach for Turkey with geographic information systems, Postgraduate, Ç.Yamak(Student), 2006

AKYÜREK S. Z., Investigation over a national meteorological fire danger approach for Turkey with geographical information systems, Postgraduate, Y.ÇAĞATAY(Student), 2006

AKYÜREK S. Z., Semi-distributed hydrologic modeling studies in yuvacık basin, Postgraduate, M.KEMAL(Student), 2006

AKYÜREK S. Z., Developing a GIS based methodology for decision making for multiobjective recreational areas, case study : Eastern Black Sea Region, Postgraduate, Z.Gözde(Student), 2006

AKYÜREK S. Z., Application of sleuth model in Antalya, Postgraduate, Ö.ŞEVİK(Student), 2006

AKYÜREK S. Z., Developing a gis based methodology for decision making for multiobjective recreational areas, case study eastern black sea region, Postgraduate, Z.GÖZDE(Student), 2006

BAYKAL N., AKYÜREK S. Z., A geographic information systems tool development for geostatistical analysis of endangered endemic vascular plants of Turkey, Postgraduate, B.DEMİRCİ(Student), 2005

AKYÜREK S. Z., Use of satellite observed seasonal snow cover in hydrological modeling and snowmelt runoff prediction in upper euphrates basin, Turkey, Doctorate, A.Arda(Student), 2005

AKYÜREK S. Z., Determination of potential favorable zones for pelagic fish aggregation (anchovy) in the Black Sea using RS and GIS, Postgraduate, N.Çiftçi(Student), 2005

AKYÜREK S. Z., Determination of potential favorable zones for pelagic fish aggregation (anchovy) in the Black Sea using RS and GIS, Postgraduate, N.ÇİFTÇİ(Student), 2005

AKYÜREK S. Z., Soil erosion risk mapping using geographic information systems: A case study on Kocadere Creek Watershed, İzmir, Postgraduate, K.OKALP(Student), 2005

AKYÜREK S. Z., Analysis pattern of Şanlıurfa Harran plain in UML and its implementation in geodatabase, Postgraduate, U.ÇUBUK(Student), 2004

AKYÜREK S. Z., Implementing the dijsktra's algorithm with priority queue to the path finding problem in raster gis, Postgraduate, M.HAKBİLİR(Student), 2004

AKYÜREK S. Z., Implementing the disktra's algorithm with priority queue to the path finding problem in raster gis, Postgraduate, M.Hakbılır(Student), 2004

AKYÜREK S. Z., Assessment of vulnerability to earthquake hazards using spatial multicriteria analysis: Odunpazarı, Eskişehir case study, Postgraduate, M.SERVİ(Student), 2004

AKYÜREK S. Z., Devoloping a parcel-based information system by object-oriented approach, Postgraduate, E.TUFAN(Student), 2003

AKYÜREK S. Z., Assessment of social vulnerability using geographic information systems: Pendik, Istanbul case study, Postgraduate, Z.GÜNGÖR(Student), 2003

AKYÜREK S. Z., Defining priority areas for nature conservation studies using geographic information systems a case study: Kaçkar mountains and surrounding, Postgraduate, A.Tunca(Student), 2003

AKYÜREK S. Z., A methodology for digital elevation model uncertainty evaluation: Uncertainty propagation in flood inundation modeling, Postgraduate, M.YILMAZ(Student), 2003

AKYÜREK S. Z., Development of GIS-based national hydrography dataset, Sub-basin boundaries, and water quality/quantity data analysis system for Turkey, Postgraduate, S.GİRGİN(Student), 2003

AKYÜREK S. Z., Defining priority areas for nature conservation studies using geographic information sytems a case study: Kaçkar mountains and surrounding, Postgraduate, A.TUNCA(Student), 2003

AKYÜREK S. Z., KÜÇÜKPEHLİVAN T., Developing a parcel-based information system by object-oriented approach, Postgraduate, E.Tufan(Student), 2003

AKYÜREK S. Z., GIS-based spatial model for wildfire simulation: Marmaris-Çetibeli fire, Postgraduate, E.TAŞEL(Student), 2003

AKYÜREK S. Z., The enhancement of the cell-based GIS analyses with fuzzy processing capabilities, Postgraduate, T.ALPA(Student), 2003

AKYÜREK S. Z., Analysing flood vulnerable areas with multicriteria evaluation., Postgraduate, G.YALÇIN(Student), 2002

AKYÜREK S. Z., The Role of real time kinematic global positioning technique in Turkish cadastral activities, Postgraduate, A.İLKER(Student), 2002

TUNCEL S. G., AKYÜREK S. Z., Integration of geographic information systems with environmental impact assessment: A case study on Çamlı dam, Postgraduate, E.ESENGİN(Student), 2002

AKYÜREK S. Z., GPS and DGPS error sources and developing a DGPS post processing software, Postgraduate, M.OCAK(Student), 2001

AKYÜREK S. Z., A Hierarchical classification of landsat TM imagery for land cover mapping, Postgraduate, M.AVCI(Student), 2000

AKYÜREK S. Z., Multimedia and internet mapping for METU, Postgraduate, M.ÜSTÜN(Student), 2000

Jury Memberships

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Middle East Technical University, December, 2022

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Middle East Technical University, May, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Middle East Technical University, December, 2021

Award, Parlat Vakfi, Middle East Technical University, November, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Ege University, September, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Ege University, September, 2021

Associate Professor Exam, Associate Professor Exam, Middle East Technical University, August, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi,

January, 2020

Award, Parlar Vakfı Araştırma Teşvik Ödülü, Orta Doğu Teknik Üniversitesi, September, 2019

Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniv., July, 2019

Appointment to Academic Staff-Professorship, Appointment Academic Staff, Middle East Technical University, January, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, December, 2018

Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, August, 2018

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, June, 2018

Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, June, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Mesocosm Design and Implementation of Two Synchronized Case Study Experiments to Determine the Impacts of Salinization and Climate Change on the Structure and Functioning of Shallow Lakes**
ÖZKAN K., KORKMAZ M., Amorim C. A., Yılmaz G., Koru M., SEVERCAN Y. C., Pacheco J. P., Acar V., Çolak M. A., Yavuz G. C., et al.
Water (Switzerland), vol.15, no.14, 2023 (SCI-Expanded)
- II. **Evaluation of near-surface air temperature reanalysis datasets and downscaling with machine learning based Random Forest method for complex terrain of Turkey**
Hasan Karaman Ç., AKYÜREK S. Z.
Advances in Space Research, vol.71, no.12, pp.5256-5281, 2023 (SCI-Expanded)
- III. **Effects of Climate Change on the Habitat Suitability and Distribution of Endemic Freshwater Fish Species in Semi-Arid Central Anatolian Ecoregion in Türkiye**
KORKMAZ M., MANGIT F., Dumlupınar İ., Çolak M. A., Akpınar M. B., Koru M., Pacheco J. P., Ramírez-García A., Yılmaz G., Amorim C. A., et al.
Water (Switzerland), vol.15, no.8, 2023 (SCI-Expanded)
- IV. **Kozmik Işın Nötron Sayacı ile Ölçülen Toprak Neminin Hidrolojik Modellerde Kullanımı**
Duygu M. B., AKYÜREK S. Z.
TEKNİK DERGİ/TECHNICAL JOURNAL OF TURKISH CHAMBER OF CIVIL ENGINEERS, vol.33, pp.12987-13012, 2022 (SCI-Expanded)
- V. **Increased Water Abstraction and Climate Change Have Substantial Effect on Morphometry, Salinity, and Biotic Communities in Lakes: Examples from the Semi-Arid Burdur Basin (Turkey)**
Colak M. A., Oztas B., ÖZGENCİL İ. K., Soyluer M., Korkmaz M., Ramirez-Garcia A., Metin M., Yilmaz G., Ertugrul S., TAVŞANOĞLU Ü. N., et al.
WATER, vol.14, no.8, 2022 (SCI-Expanded)
- VI. **A machine learning-based accuracy enhancement on EUMETSAT H-SAF H35 effective snow-covered area product**
Kuter S., Bolat K., AKYÜREK S. Z.
Remote Sensing of Environment, vol.272, 2022 (SCI-Expanded)
- VII. **COSMOS-Europe: a European network of cosmic-ray neutron soil moisture sensors**
Bogena H. R., Schroen M., Jakobi J., Ney P., Zacharias S., Andreasen M., Baatz R., Boorman D., Berk Duygu M., Angel Eguibar-Galan M., et al.
EARTH SYSTEM SCIENCE DATA, vol.14, no.3, pp.1125-1151, 2022 (SCI-Expanded)
- VIII. **Decadal changes in size, salinity, waterbirds, and fish in lakes of the Konya Closed Basin, Turkey, associated with climate change and increasing water abstraction for agriculture**
Yilmaz G., Colak M. A., Özgencil İ. K., Metin M., Korkmaz M., Ertugrul S., Soyluer M., Bucak T., Tavsanoglu U. N., Özkan K., et al.
INLAND WATERS, vol.11, no.4, pp.538-555, 2021 (SCI-Expanded)

- IX. **Quantifying snow water equivalent using terrestrial ground penetrating radar and unmanned aerial vehicle photogrammetry**
Yildiz S., AKYÜREK S. Z., Binley A.
Hydrological Processes, vol.35, no.5, 2021 (SCI-Expanded)
- X. **WRF-Hydro Model Application in a Data-Scarce, Small and Topographically Steep Catchment in Samsun, Turkey**
Ozkaya A., Akyurek Z.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.45, no.5, pp.3781-3798, 2020 (SCI-Expanded)
- XI. **A multi-technique approach to determine temporal and spatial variability of groundwater-stream water exchange**
Koruk K., YILMAZ K. K., Akyurek Z., Binley A.
HYDROLOGICAL PROCESSES, vol.34, no.11, pp.2612-2627, 2020 (SCI-Expanded)
- XII. **Evaluating the use of bias-corrected radar rainfall data in three flood events in Samsun, Turkey**
Ozkaya A., Akyurek Z.
Natural Hazards, vol.98, no.2, pp.643-674, 2019 (SCI-Expanded)
- XIII. **Using cosmic-ray neutron probes in validating satellite soil moisture products and land surface models**
Duygu M. B., Akyürek Z.
Water (Switzerland), vol.11, no.7, 2019 (SCI-Expanded)
- XIV. **Retrieval of fractional snow covered area from MODIS data by multivariate adaptive regression splines**
KUTER S., AKYÜREK S. Z., Weber G.
REMOTE SENSING OF ENVIRONMENT, vol.205, pp.236-252, 2018 (SCI-Expanded)
- XV. **A new approach to evaluate the MODIS annual NPP product (MOD17A3) using forest field data from Turkey**
Gulbeyaz O., Bond-Lamberty B., Akyurek Z., West T. O.
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.39, no.8, pp.2560-2578, 2018 (SCI-Expanded)
- XVI. **A progressive approach for processing satellite data by operational research**
KUTER S., Weber G., Akyurek Z.
OPERATIONAL RESEARCH, vol.17, no.2, pp.371-393, 2017 (SCI-Expanded)
- XVII. **Climate change impacts on extreme precipitation of water supply area in Istanbul: use of ensemble climate modelling and geo-statistical downscaling**
Kara F., Yücel İ., Akyurek Z.
HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES, vol.61, pp.2481-2495, 2016 (SCI-Expanded)
- XVIII. **Inversion of top of atmospheric reflectance values by conic multivariate adaptive regression splines**
KUTER S., Weber G., Akyurek Z., Ozmen A.
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, vol.23, no.4, pp.651-669, 2015 (SCI-Expanded)
- XIX. **Object Based Classification of Multi temporal Images for Agricultural Crop Mapping in Karacabey Plain Turkey**
ÖZDARICI OK A., AKYÜREK S. Z.
ISPRS - International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol.7, pp.127-132, 2014 (SCI-Expanded)
- XX. **Comparison of regression and kriging techniques for mapping the average annual precipitation of Turkey**
Bostan P. A., Heuvelink G. B. M., AKYÜREK S. Z.
INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION, vol.19, pp.115-126, 2012 (SCI-Expanded)
- XXI. **A segment-based approach to classify agricultural lands by using multi-temporal optical and microwave data**
Ok A. O., Akyurek Z.

- INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.33, no.22, pp.7184-7204, 2012 (SCI-Expanded)
- XXII. **Investigation of the snow-cover dynamics in the Upper Euphrates Basin of Turkey using remotely sensed snow-cover products and hydrometeorological data**
 AKYÜREK S. Z., Surer S., Beser O.
 HYDROLOGICAL PROCESSES, vol.25, no.23, pp.3637-3648, 2011 (SCI-Expanded)
- XXIII. **Fuzzy model tuning using simulated annealing**
 Yanar T. A., AKYÜREK S. Z.
 EXPERT SYSTEMS WITH APPLICATIONS, vol.38, no.7, pp.8159-8169, 2011 (SCI-Expanded)
- XXIV. **Automatic training site selection for agricultural crop classification A case study on Karacabey Plain Turkey**
 ÖZDARICI OK A., AKYÜREK S. Z.
 International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, vol.38, pp.221-226, 2011 (SCI-Expanded)
- XXV. **Evaluating the utility of the ANSA blended snow cover product in the mountains of eastern Turkey**
 AKYÜREK S. Z., Hall D. K., Riggs G. A., ŞENSOY ŞORMAN A.
 INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.31, no.14, pp.3727-3744, 2010 (SCI-Expanded)
- XXVI. **Identification and mapping of submerged plants in a shallow lake using quickbird satellite data**
 Dogan O. K., AKYÜREK S. Z., BEKLİOĞLU M.
 JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.90, no.7, pp.2138-2143, 2009 (SCI-Expanded)
- XXVII. **Modelling and forecasting snowmelt runoff process using the HBV model in the eastern part of Turkey**
 ŞORMAN A. A., ŞENSOY ŞORMAN A., Tekeli A. E., Sorman A. U., Akyurek Z.
 HYDROLOGICAL PROCESSES, vol.23, no.7, pp.1031-1040, 2009 (SCI-Expanded)
- XXVIII. **Modeling the temporal variation in snow cover area on sub basin scale for simulating forecasting of snowmelt runoff in Turkey**
 TEKELİ A. E., AKYÜREK S. Z., ŞENSOY ŞORMAN A., ŞORMAN A. A., ŞORMAN A. Ü.
 Hydrological Science Journal, vol.50, pp.669-682, 2009 (SCI-Expanded)
- XXIX. **Commentary on comparison of MODIS snow cover and albedo products with ground observations over the mountainous terrain of Turkey**
 ŞORMAN A. Ü., AKYÜREK S. Z., ŞENSOY ŞORMAN A., ŞORMAN A. A., TEKELİ A. E.
 Hydrology and Earth System Sciences, vol.11, pp.1353-1360, 2007 (SCI-Expanded)
- XXX. **The enhancement of the cell-based GIS analyses with fuzzy processing capabilities**
 Yanar T., Akyurek Z.
 INFORMATION SCIENCES, vol.176, no.8, pp.1067-1085, 2006 (SCI-Expanded)
- XXXI. **Accuracy assessment of MODIS daily snow albedo retrievals with in situ measurements in Karasu basin, Turkey**
 Tekeli A., Sensoy A., Sorman A., Akyurek Z., Sorman U.
 HYDROLOGICAL PROCESSES, vol.20, no.4, pp.705-721, 2006 (SCI-Expanded)
- XXXII. **Using MODIS snow cover maps in modeling snowmelt runoff process in the eastern part of Turkey**
 Tekeli A., Akyurek Z., Sorman A., Sensoy A., Sorman A.
 REMOTE SENSING OF ENVIRONMENT, vol.97, no.2, pp.216-230, 2005 (SCI-Expanded)
- XXXIII. **Determination of soil hydraulic properties using pedotransfer functions in a semi-arid basin, Turkey**
 TOMBUL M., AKYÜREK S. Z., ŞORMAN A. Ü.
 HYDROLOGY AND EARTH SYSTEM SCIENCES, vol.8, no.6, pp.1200-1209, 2004 (SCI-Expanded)
- XXXIV. **Monitoring the Snow covered Areas from NOAA AVHRR images in the Eastern Part of Turkey**
 AKYÜREK S. Z., ŞORMAN A. Ü.
 Hydrological Sciences Journal, vol.47, pp.243-252, 2002 (SCI-Expanded)

- I. **Understanding the Snow Cover Climatology over Turkey from ERA5-Land Reanalysis Data and MODIS Snow Cover Frequency Product**
 AKYÜREK S. Z., Kuter S., Karaman Ç. H., Akpınar B.
 Geosciences (Switzerland), vol.13, no.10, 2023 (ESCI)
- II. **Salinization Increase due to Climate Change Will Have Substantial Negative Effects on Inland Waters: A Call for Multifaceted Research at the Local and Global Scale**
 Jeppesen E., Özkan K., Akyürek Z., Beklioğlu M.
 The Innovation, vol.1, no.2, 2020 (ESCI)
- III. **Special issue on remote sensing of snow and its applications**
 Arslan A. N., Akyürek Z.
 Geosciences (Switzerland), vol.9, no.6, 2019 (Scopus)
- IV. **Cross-Country Assessment of H-SAF Snow Products by Sentinel-2 Imagery Validated against In-Situ Observations and Webcam Photography**
 Piazzzi G., Tanis C. M., KUTER S., Simsek B., Puca S., Toniazzi A., Takala M., Akyurek Z., Gabellani S., Arslan A. N.
 GEOSCIENCES, vol.9, no.3, 2019 (ESCI)
- V. **Dynamic and context based interoperability to support infrastructure management in municipalities**
 TUFAN E., OĞUZTÜZÜN M. H. S., AKYÜREK S. Z.
 Journal of the Urban and Regional Information Systems Association, vol.26, no.2, pp.33-49, 2015 (Scopus)
- VI. **Dynamic and context-based GIS interoperability to support infrastructure management in municipalities**
 Emrah T., AKYÜREK S. Z., OĞUZTÜZÜN M. H. S.
 URISA Journal, vol.26, no.2, pp.33-50, 2015 (Scopus)

Books & Book Chapters

- I. **An alternative method for snow cover mapping on satellite images by modern applied mathematics**
 KUTER S., AKYÜREK S. Z., KUTER N., WEBER G. W.
 in: Modeling, Dynamics, Optimization and Bioeconomics II, Springer Proceedings in Mathematics Statistics, A.A. Pinto and D. Zilberman, Editor, Springer International Publishing, pp.267-292, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Functional Responses of Wetland Birds to Human-caused Habitat Degradation and Climate Change: A Case Study from Turkey**
 Özgencil I. K., Çolak M. A., Soyluer M., Uslu A., Metin M., Yılmaz G., Beklioğlu M., Özkan K., Akyürek S. Z., Jeppesen E.
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- II. **Evaluation of gridded near surface air temperature datasets across complex terrain**
 Karaman C., Akyürek S. Z.
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- III. **Decadal changes in size, salinity, waterbirds, and fish in lakes of the Konya Closed Basin, Turkey, associated with climate change and increasing water abstraction for agriculture**
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- IV. **Web-based Hydrological Modelling Hidro-ODTU**
 Karaman Ç., Akyürek S. Z.
 EGU 2020 online, Vienna, Austria, 4 - 08 May 2020, pp.1
- V. **Latest Advances in Fractional Snow Cover Mapping on MODIS data by Machine Learning Algorithms**
 Kuter S., Akyürek S. Z.

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- VI. **Using the Jupyter Notebook as a Tool for analyzing the EUMETSAT HSAF snow products**
Akyürek S. Z., Karaman Ç., Bolat K., Takala M.
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- VII. **Kozmik Işın Nötron Sensöründen (CRNP) Elde edilen Toprak Neminin Hidrolojik Modellemede Kullanımının Değerlendirilmesi**
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10. Hidroloji Kongresi, Turkey, 9 - 12 October 2019
- VIII. **KOZMİK IŞIN NÖTRON SENSÖRÜNDEN (CRNP) ELDE EDİLEN TOPRAK NEMİNİN HİDROLOJİK MODELLEMEDE KULLANIMININ DEĞERLENDİRİLMESİ**
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- IX. **Using Cosmic-ray Neutron Probes in validating the Satellite Soil Moisture Products and Land Surface Models**
Duygu M. B., Akyürek S. Z.
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- X. **Estimating Actual Evapotranspiration Using Basin Scale Landsat Images in a Semi-Arid Region of Turkey**
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- XI. **A multi-technique approach to determine temporal and spatial variability of groundwater-stream water exchange**
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- XIV. **1/25 000 Ölçekli Standart Topoğrafik Haritalardan Elde Edilen Sayısal Yükseklik Modellerinin Doğruluk Analizi**
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- XV. **Sentinel-2A Çok Spektral Görüntülerden İkili Kar Örtüsü Haritalaması İçin il Doğrulama Sonuçları**
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- XVI. **Coupled 1-D Hydrodynamics and Sediment Transport Modelling In Flood Analysis: Samsun-Terme River Application**
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- XVII. **ADDRESSING SOME GLOBAL CHALLENGES WITH EARTH-OBSERVINGSATELLITE DATA, NEW OR-ANALYTICS AND THE HUMAN FACTOR**
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- XVIII. **Uncertainty analysis of a snowmelt runoff model using Markov Chain Monte Carlo (MCMC) approach**
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- XIX. **Potential use of Cosmic Ray Neutron Sensor in estimating state variables in hydrological models**
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- XX. **Water content estimated from point scale to plot scale".**
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- XXI. **Fractional Snow Cover Mapping by Artificial Neural Networks and Support Vector Machines**
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- XXIII. **Radar bias correction using Kalman filtering approach and spatio temporal kriging with external drift**
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- XXIV. **Establishing a Critical Zone Observatory site in Turkey**
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- XXV. **Fractional Snow Cover Mapping from MODIS data over European Alps by Multivarite Adaptive Regression Splines.**
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- XXVIII. **ESTIMATION OF SUBPIXEL SNOW-COVERED AREA BY NONPARAMETRIC REGRESSION SPLINES**
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- XXIX. **Evaluating the use of radar precipitation data in simulating a flood event in Terme Samsun Turkey**
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- XXX. **Soft Classification of Satellite Data for Snow Mapping by using Multivariate Adaptive Regression Splines**
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- XXXI. **The importance of precise DEMs in modelling flood**
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- XXXII. **Evaluating the use of different precipitation datasets in flood modelling**
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- XXXIII. **American Geophysical Union Fall Meeting**
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- XXXIV. **YAĞIŞIN ZAMAN VE MEKÂNDA DAĞILIMININ ELDE EDİLMESİ**
ASLANTAŞ P., AKYÜREK S. Z., Gerard H.
VIII. Hidroloji Kongresi, Turkey, 8 - 10 October 2015, pp.430-447
- XXXV. **ÇOKLUMETRİK ÇERÇEVE İLE HBV MODELİNİN KALİBRASYONU**

Sürer S., Yılmaz K., AKYÜREK S. Z.

VIII Hidroloji Kongresi, Turkey, 8 - 10 October 2015, pp.210-212

XXXVI. Upstream structural management measures for an urban area flooding in Turkey

AKYÜREK S. Z., Bozoglu B., Surer S., Mumcu H.

Symposium on Changes in Flood Risk and Perception in Catchments and Cities, Prague, Czech Republic, 22 June - 02 July 2015, vol.370, pp.45-50

XXXVII. AUTOMATIC TRAINING SITE SELECTION FOR AGRICULTURAL CROP CLASSIFICATION: A CASE STUDY ON KARACABEY PLAIN, TURKEY

OK A., AKYÜREK S. Z.

ISPRS Hannover Workshop on High-Resolution Earth Imaging for Geospatial Information, Hannover, Germany, 14 - 17 June 2011, pp.221-225

XXXVIII. A comparison of SAR filtering techniques on agricultural area identification

Ozdarici A., AKYÜREK S. Z.

American Society for Photogrammetry and Remote Sensing Annual Conference 2010: Opportunities for Emerging Geospatial Technologies, San Diego, CA, United States Of America, 26 - 30 April 2010, vol.2, pp.730-739

XXXIX. SPATIO-TEMPORAL ANALYSIS OF PRECIPITATION AND TEMPERATURE DISTRIBUTION OVER TURKEY

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XL. Assessment of different topographic corrections in MODIS data for mapping effective snow covered areas in mountainous terrain

AKYÜREK S. Z., Sorman A. U.

28th European-Association-of-Remote-Sensing-Laboratories (EARSeL) Symposium and Workshops on Remote Sensing for a Changing Europe, İstanbul, Turkey, 2 - 05 June 2008, pp.61-72

XLI. Real time snow recognition from msg satellite for mountainous areas

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XLII. Monitoring Changes in Surface Mining Area by Using SPOT Satellite Images

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7th International Symposium on Environmental Issues and Waste Management in Energy and Mineral Production, Cagliari, Italy, 7 - 10 October 2002, pp.373-380

Supported Projects

Dolcerocca A. P. C., Beklioğlu M., Akyürek S. Z., H2020 Project, POND Ecosystems for Resilient FUTURE Landscapes in a changing climate, 2020 - 2024

Akyürek S. Z., EU Supported Other Project, EUMETSAT H-SAF Proje Kapsamında Meteorolojik Uydu Verilerinin Operasyonel Hidroloji ve Su Kaynakları Yönetiminde Kullanım, 2017 - 2022

AKYÜREK S. Z., Bozoglu B., Project Supported by Higher Education Institutions, Samsun ili Terme İlçesi için 1-B ve 2-B Entegre Taşkın Modellemesi, 2013 - 2022

Özkan K., Korkmaz M., Akyürek S. Z., Project Supported by Other Official Institutions, Göksu Deltası Özel Çevre Koruma Bölgesi Sulak Alan ve Karasal Alan Ekosistem Rehabilitasyon Projesi Fizibilite Raporu Hazırlanması, 2021 - 2021

AKYÜREK S. Z., TUBITAK Project, Kavramsal Hidrolojik Model ile Hidrolojik Döngü Parametrelerinin Elde Edilmesi, 2016 - 2019

Akyürek S. Z., EU Supported Other Project, EUROPEAN NETWORK FOR A HARMONISED MONITORING OF SNOW FOR THE BENEFIT OF CLIMATE CHANGE SCENARIOS, HYDROLOGY AND NUMERICAL WEATHER PREDICTION, 2015 - 2018

AKYÜREK S. Z., Other International Funding Programs, EUMETSAT HSAF CDOP2, 2012 - 2017
AKYÜREK S. Z., ÖZKAYA A., Project Supported by Higher Education Institutions, Taşkın Alanı Belirleme Çalışmalarında Radar ve Uydu Yağış Verilerinin Hidrolojik Modelleme Üzerindeki Etkisi: Samsun-Terme Örneği, 2015 - 2015
AKYÜREK S. Z., Project Supported by Higher Education Institutions, Me-Top-Avhrr Uydu Verisi Kullanılarak Etkili Kar Kaplı Alan Algoritmasının Geliştirilmesi, 2012 - 2012
Akıntuğ B., Yanmaz A. M., Akyürek S. Z., Sürer S., Project Supported by Higher Education Institutions, Bostancı-Güzelyurt Taşkın Modellemesi ve Güzelyurt Bölgesinde Taşkın Riski Altında olan bölgelerin belirlenmesi, 2010 - 2011
AKYÜREK S. Z., Project Supported by Higher Education Institutions, Bölgesel Debi-Süreklilik Eğrilerinin Geliştirilmesi Ve Akım Gözlemi Olmayan Havzalarda Güvenirliğinin Belirlenmesi, 2009 - 2009
AKYÜREK S. Z., Project Supported by Higher Education Institutions, Tarım Alanlarının Sınıflandırılmasında Doğruluğu Arttırmak İçin Çeşitli Füzyon Metodlarının Optik, Radar Ve Hiperspektral Verilere Uygulanması, 2008 - 2008

Activities in Scientific Journals

Geosciences, Editor, 2018 - 2018

Scientific Refereeing

JOURNAL OF HYDROLOGY, Journal Indexed in SCI-E, November 2022
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, National Scientific Refreed Journal, November 2022
HELIYON, Journal Indexed in SCI-E, November 2022
ATMOSPHERE, Journal Indexed in SCI-E, October 2022
TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, October 2022
TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Middle East Technical University, Turkey, October 2022
JOURNAL OF HYDROLOGY, Journal Indexed in SCI-E, September 2022
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Technopark, Middle East Technical University, Turkey, September 2022
JOURNAL OF HYDROLOGY, Journal Indexed in SCI-E, August 2022
JOURNAL OF ENVIRONMENTAL MONITORING, Journal Indexed in SCI-E, May 2022
ATMOSPHERE, Journal Indexed in SCI-E, April 2022
HELIYON, Journal Indexed in SCI-E, March 2022
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Technopark, Middle East Technical University, Turkey, March 2022
TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, February 2022
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, January 2022
JOURNAL OF WATER AND WASTEWATER SCIENCE AND ENGINEERING, SCI Journal, December 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2021
JOURNAL OF HYDROLOGY, National Scientific Refreed Journal, November 2021
ATMOSPHERE, SCI Journal, November 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2021
GEOCARTO INTERNATIONAL MULTI-DISCIPLINARY JOURNAL OF REMOTE SENSING AND GIS, SCI Journal, October 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, October 2021

COMPUTERS AND ELECTRONICS IN AGRICULTURE AN INTERNATIONAL JOURNAL, SCI Journal, September 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, September 2021
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TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, August 2021
Technopark, SIEMENS SANAYİ VE TİCARET ANONİM ŞİRKETİ -ODTÜ TEKNOKENT ŞUBESİ, Turkey, July 2021
JOURNAL OF HYDROLOGY, SCI Journal, June 2021
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JOURNAL OF HYDROLOGY, SCI Journal, February 2021
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JOURNAL OF HYDROLOGY, SCI Journal, September 2020
INTERNATIONAL JOURNAL OF REMOTE SENSING, SCI Journal, September 2020
TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Middle East Technical University, Turkey, September 2020
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, SCI Journal, August 2020
INTERNATIONAL JOURNAL OF REMOTE SENSING, SCI Journal, August 2020
INTERNATIONAL JOURNAL OF REMOTE SENSING, SCI Journal, July 2020
TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Middle East Technical University, Turkey, July 2020
JOURNAL OF HYDROLOGY, SCI Journal, June 2020
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, SCI Journal, June 2020
INTERNATIONAL JOURNAL OF REMOTE SENSING, SCI Journal, June 2020
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Middle East Technical University, Turkey, June 2020
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Middle East Technical University, Turkey, June 2020
TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Middle East Technical University, Turkey, May 2020
JOURNAL OF HYDROLOGY, SCI Journal, April 2020
INTERNATIONAL JOURNAL OF REMOTE SENSING, SCI Journal, March 2020
TUBITAK Project, 1011 - International Scientific Research Projects Participation Program (UBAP), Middle East Technical University, Turkey, March 2020
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Project Supported by Higher Education Institutions, BAP Research Project, Ege University, Turkey, February 2020
INTERNATIONAL JOURNAL OF REMOTE SENSING, SCI Journal, January 2020
TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Middle East Technical University, Turkey, January 2020
INTERNATIONAL JOURNAL OF REMOTE SENSING, SCI Journal, October 2019
JOURNAL OF HYDROLOGY, SCI Journal, October 2019
JOURNAL OF HYDROLOGIC ENGINEERING, SCI Journal, October 2019
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical

University, Turkey, October 2019

TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Middle East Technical University, Turkey, October 2019

JOURNAL OF HYDROLOGIC ENGINEERING, SCI Journal, September 2019

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TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, July 2019

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, July 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2019

JOURNAL OF HYDROLOGIC ENGINEERING, SCI Journal, April 2019

Journal Of Hydrologic Engineering, SCI Journal, April 2019

ADVANCES IN SPACE RESEARCH, SCI Journal, April 2019

TEKNIK DERGI, National Scientific Refreed Journal, December 2018

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, November 2018

MATHEMATICAL PROBLEMS IN ENGINEERING, Journal Indexed in SCI-E, October 2018

NATURAL HAZARDS, SCI Journal, May 2018

REMOTE SENSING OF ENVIRONMENT, SCI Journal, March 2018

JOURNAL OF HYDROLOGIC ENGINEERING, Journal Indexed in SCI-E, February 2018

JOURNAL OF HYDROLOGY, SCI Journal, February 2018

Advances In Space Research, Journal Indexed in SCI-E, February 2018

Journal Of Hydrologic Engineering, Journal Indexed in SCI-E, January 2018

JOURNAL OF HYDROLOGIC ENGINEERING, Journal Indexed in SCI-E, January 2018

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, January 2018

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TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, January 2018

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, January 2018

Scientific Consultations

TUBITAK, Project Consultancy, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey, 2018 - 2019

Tasks In Event Organizations

Akyürek S. Z., Avrupa-Uzun Dönemli Ekolojik Araştırma Ağı (e-LTER) ile Türkiye- Uzun Dönemli Ekolojik Araştırma Ağı (tr-LTER) Oluşturma Çalıştayı ve “Kavramsal Hidrolojik Model ile Hidrolojik Döngü Parametrelerinin Elde Edilmesi” TUBITAK 115Y041 Projesi Sonuçları Paylaşım ve Değerlendirme Toplantısı, Workshop Organization, Ankara, Turkey, Haziran 2019

Scientific Research / Working Group Memberships

Tujjb -Tuhk, Middle East Technical University, Turkey, <http://www.tujjb.org.tr/s-2-tuhk.html>, 2005 - Continues

Metrics

Publication: 93
Citation (WoS): 778
Citation (Scopus): 1002
H-Index (WoS): 14
H-Index (Scopus): 17

Congress and Symposium Activities

HSAF PProject Meeting, Working Group, Reading, United Kingdom, 2018
EGU, Working Group, Vienna, Austria, 2018

Invited Talks

İklim Degisikliginin Konya ve Burdur Kapali Havzalarinaki Goller Uzerinde Etkisi, Seminar, Insaat Muh. Odasi, Turkey, March 2021

Entrepreneurship Activities

Limited, Hidrosaf YAz. Bil.Dan. Ltd. ŞTi, 19 September 2014, Owner

Non Academic Experience

Hidosaf Ltd.Şti
Technology Development Zone, ODTU Teknokent, Hidrosaf Ltd.Sti.
NASA-GSFC
METU
METU
METU
METU
METU
METU
METU
METU
METU
METU
TUBİTAK-Bilten
METU
University of Bristol, Center for Remote Sensing